

**Translation - Function**

L1S2

If  $g(x)$  is a translated function of  $f(x)$ , then find  $g(x)$ .

1)  $f(x) = -13x^2 + 6x - 5$ ; shifts 9 units down.

2)  $f(x) = 3(2x + 1)(x + 5)$ ; shifts 11 units up.

3)  $f(x) = 4x^2 +$

4)  $f(x) = -(x -$

5)  $f(x) = 2(x +$

6)  $f(x) = 9(x - 2)(x - 5)$ ; shifts 2 units down.

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**Answer key****Translation - Function**

L1S2

If  $g(x)$  is a translated function of  $f(x)$ , then find  $g(x)$ .

1)  $f(x) = -13x^2 + 6x - 5$ ; shifts 9 units down.

$$g(x) = -13x^2 + 6x - 14$$

2)  $f(x) = 3(2x + 1)(x + 5)$ ; shifts 11 units up.

$$g(x) = 6x^2 +$$

3)  $f(x) = 4x^2 +$

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4)  $f(x) = -(x -$

$$g(x) = -x^2 +$$

5)  $f(x) = 2(x +$

$$g(x) = 2x^2 - 20x + 57$$

6)  $f(x) = 9(x - 2)(x - 5)$ ; shifts 2 units down.

$$g(x) = 9x^2 - 63x + 88$$

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